



SUBSTITUTE DECLARATION

As the below-named inventors, we declare that:

Our residences, post office addresses, and citizenships are as stated below our names.

We believe we are the original, first, and sole inventors of the invention entitled "METHOD AND SYSTEM FOR USING DYNAMIC RANDOM ACCESS MEMORY AS CACHE MEMORY," which is described and claimed in the application and claims of Patent Application No. 09/642,546, which we filed in the United States Patent and Trademark Office on August 17, 2000, and for which a patent is sought.

We have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to herein (if any).

We acknowledge our duty to disclose information of which we are aware which is material to patentability and examination of this application in accordance with 37 C.F.R. § 1.56(a).

We acknowledge that an earlier declaration, filed with the United States Patent and Trademark Office on March 30, 2001, in response to a Notice to File Missing Parts, is defective in that inventor Kevin J. Ryan was not listed on the declaration. We affirm that the omission of inventor Kevin J. Ryan occurred by error and without deceptive intent. Therefore, we execute this Substitute Declaration with the intention of correcting the inventorship of this patent application by including inventor Kevin J. Ryan.

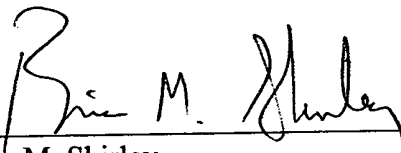
We further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that the making of willfully false statements and the like is punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and may jeopardize the validity of any patent issuing from this patent application.



Brent Keeth

Date 6/6/2001
Residence : City of Boise, County of Ada
State of Idaho

Citizenship : United States of America
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Brian M. Shirley

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Date _____
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State of California

Citizenship : United States of America
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Brent Keeth

Date _____

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State of Idaho

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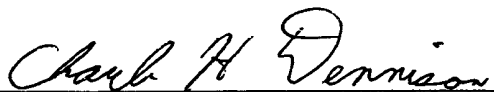
Brian M. Shirley

Date _____

Residence : City of Boise, County of Ada
State of Idaho

Citizenship : United States of America

P.O. Address : 2484 Sunshine Drive
Boise, Idaho 83712



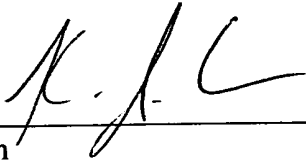
Charles H. Dennison

Date 6-28-01

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San Jose, California 95138



Kevin J. Ryan

Date

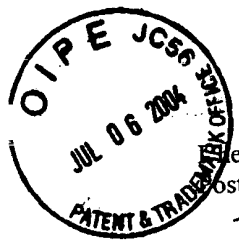
6/4/01

Residence : City of Eagle, County of Ada
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Citizenship : United States of America

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Eagle, Idaho 83616

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PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner of Patents, Washington, DC 20231.

Date July 4, 2001

Mary G. Painter
Mary G. Painter

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Brent Keeth, Brian M. Shirley, Charles H. Dennison, Kevin J. Ryan	Attorney Docket No.:	: 500644.01
Serial No.	: 09/642,546	Group Art Unit	: 2185
Filed	: August 17, 2000	Examiner	: not yet assigned
Title	: METHOD AND SYSTEM FOR USING DYNAMIC RANDOM ACCESS MEMORY AS CACHE MEMORY		

**STATEMENT OF NON-DECEPTIVE INTENT BY PERSON BEING ADDED BY
PETITION TO CORRECT INVENTORSHIP AND ADD ORIGINAL ERRONEOUSLY
NOT-NAMED INVENTOR IN NON-PROVISIONAL APPLICATION DECLARATION
(37 C.F.R. § 1.48(a))**

Commissioner of Patents
Washington, D.C. 20231

Sir:

I, Kevin J. Ryan, the person being added as an inventor by the petition being submitted to correct the inventorship of this patent application, do hereby declare that the inventorship error in failing to include my name as an inventor on this patent occurred without any deceptive intention on my part.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that the making of willfully false statements and the like is punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and may jeopardize the validity of any patent issuing from this patent application

Kevin J. Ryan

Date: 6/4/01

K. J. Ryan



PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner of Patents, Washington, DC 20231.

Date July 11, 2001

Mary G. Painter
Mary G. Painter

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Brent Keeth, Brian M. Shirley, Charles H. Dennison, Kevin J. Ryan	Attorney Docket No.:	: 500644.01
Serial No.	: 09/642,546	Group Art Unit	: 2185
Filed	: August 17, 2000	Examiner	: not yet assigned
Title	: METHOD AND SYSTEM FOR USING DYNAMIC RANDOM ACCESS MEMORY AS CACHE MEMORY		

ASSENT OF ASSIGNEE TO CORRECT INVENTORSHIP AND ADD ORIGINAL ERRONEOUSLY NOT-NAMED INVENTOR IN NON-PROVISIONAL APPLICATION DECLARATION (37 C.F.R. § 1.48(a))

Commissioner of Patents
Washington, D.C. 20231

Sir:

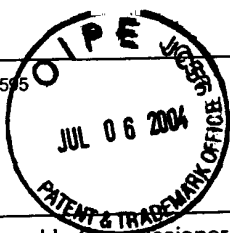
Micron Technology, Inc., a corporation of the state of Delaware, having a place of business at 8000 South Federal Way, Boise, Idaho 83716-9632, and assignee of the entire interest in the above-identified application by virtue of an assignment filed March 30, 2001, and an assignment filed concurrently herewith, hereby assents to the correction of inventorship filed concurrently herewith.

Pursuant to 37 C.F.R. § 3.73(b), the undersigned duly authorized designee of Assignee certifies that the evidentiary documents have been reviewed, specifically the Assignments to MICRON TECHNOLOGY, INC., filed March 30, 2001, and also filed concurrently herewith, copies of which are attached hereto, and certifies that to the best of my knowledge and belief, title remains in the name of the Assignee.

MICRON TECHNOLOGY, INC.

Date: 7-6-01

By: Michael L. Lynch
Michael L. Lynch
Chief Patent Counsel



PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name(s) of conveying party(ies):

1) KEVIN J. RYAN
 2) _____
 3) _____
 4) _____
 5) _____
 6) _____

Additional names of conveying parties attached? Yes No

2. Name and address of receiving party:

Name: MICRON TECHNOLOGY, INC.

Internal Address: _____

Street Address: 8000 SOUTH FEDERAL WAY
P.O. BOX 6 / 83707-0006

City: BOISE State IDAHO

Zip: 83716-9632

Additional names & addresses attached? Yes No

3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Dates:

1) JUNE 4, 2001 4) _____
 2) _____ 5) _____
 3) _____ 6) _____

4. Application number(s) or registration number(s):
 If this document is being filed together with a new application, the execution date of the application is _____.

A. Patent Application No(s).
09/642,546 FILED ON AUGUST 17, 2000

B. Patent No(s).

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: DORSEY & WHITNEY LLP

Internal Address: EDWARD W. BULCHIS
SUITE 3400

Street Address: 1420 FIFTH AVENUE

City: SEATTLE State: WA ZIP: 98101

6. Total number of applications and patents involved..... One (1)

7. Total Fee (37 CFR 3.41): \$40

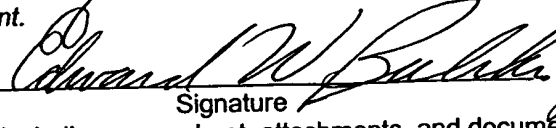
Enclosed

Authorized to be charged to deposit account

8. Deposit account number:
50-1266

DO NOT USE THIS SPACE

9. Statement and signature.
 To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

EDWARD W. BULCHIS  July 11, 2001
 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 3



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Brent Keeth, Brian M. Shirley,
Charles H. Dennison and Kevin J. Ryan

Serial No. 09/642,546

Filed: August 17, 2000

For: METHOD AND SYSTEM FOR
USING DYNAMIC RANDOM
ACCESS MEMORY AS CACHE
MEMORY

Docket No. 500644.01

Disclosure No. 99-0969

ASSIGNMENT:

Enclosed for recording

Previously recorded

Date: _____

Reel: _____

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to **Micron Technology, Inc.** (the "Assignee"), a corporation of Delaware, having a place of business at 8000 South Federal Way, Boise, Idaho 83716-9632, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which was filed on August 17, 2000, and assigned Application No. 09/642,546 and is entitled "**METHOD AND SYSTEM FOR USING DYNAMIC RANDOM ACCESS MEMORY AS CACHE MEMORY**"; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States of America;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

